1st & Final

AS)

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

A.E.E/M.N..... S.B.R. No:1 Date: 9/11/16 to 17.2016. DATE: 28/2/17

No.....

Division: **BBMP YNK** Sub-Division: **Yelahanka Sub – Division.**

YNK-DBR No. 287 Dated Date 06.03.17

Bill Received No. Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Work Code: 002-16-000012.**

Schedule Docket No. Head of Account: P-1771 Est.Cost: **25.00** Lakhs B.R.No. :

Name of Work : Construction of RO Plant at yelahanka old town area in ward no-02 of yelahanka Sub Division,

Name of Contractor and Full Address: **Sri R Vasanth, RMV 2nd stage, Nagashettyhalli, Bangalore.**

Reference to Agreement No. EE/YNK.D/ **W.O/88/2015-16.** Date: 31-8-2016.

Certified that the measurements were taken by me on 10-02-17 and recorded of Pages 163 to 164 of measurement Book No. 4538 and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 10/2/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....
   adjusted towards cash advance recovery of
   b) Payments Now made { cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Total amount adjusted -

	Amount
1st & Final	2385910:00
FSD	155085:00
IT	23860:00
KST	95437:00
LC	23860:00
CBF	2385:00
LR	3852:00
T.D	304479:00
Net	2081431:00

Contractor's Signature

Received Rs ..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

Witness
1.
2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs .....

Dated.....

Initials of Officer making payment

(For use in the Office)

Audited & Admitted for Rs. 2385910:00

Stamp

2081431:00 by Cheque

and Rs. 304479:00 by adjustment

Executive Engineer

Exe. Engineer
Yelahanka Division
BBMP

Sl no	Description of work	Unit
1	KSRB 2-1 1 Earth work in surface excavation in hard soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1 5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No	cum
2	KSRB 2-2 2 Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1 5m and above in width, in hard soil not exceeding 1 5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m specification, specification No	cum
3	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 141 and KSRB M 100 4.1 costof haulage excluding loading and unloading MORTH to a distance of 4 00 K M	cum
4	KSRB-4-1 3 Providing and laying in position plain cement concrete of mix M7 5 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0 892cum and fine aggregates @0 57cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No	Cum
5	KSRRB M300-53 construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No	cum
6	KSRB 4 2 2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0 878cum and fine aggregates @0 459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing complete as per specifications Specification No KBS 4 1,4 6, No KBS 4 1,4 6, No 13/ Item No 4 11/ PWD SR 2014-15	Cum
7	KSRB 5 2 3 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications KBS 5 1 13 Page No 23/ Item No 5 6/ PWD SR 2015-16	Cum
8	KSRB 5 3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1 8, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications KBS 5-1 13 Page No 26/ Item No 5 9/ PWD SR 2015-16	Cum
9	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications	sqm
10	KSRB 2,3 Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1 5m, including cost of all labour complete as per specifications, specification No	Cum
11	KSRB 4-6 7 Providing and removing centering, shuttering, strutting, propping etc , and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications Specification	sqm
12	KSRB 4-6 10 Providing and removing centering, shuttering, strutting, propping etc , for chajjas, corbels etc , including edges including cost of all materials, labour complete as per specifications Specification NO KBS 4 6 2 Page No 16/ Item No 4 37/ PWD SR 2015-16	sqm
13	KSRB 5-14 Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1 4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I S 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications	sqm
14	KSRB 4 9 2 providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications Specification No	Quintal
15	KSRB 15 3 1 Providing 12mm thick cement plaster in single coat with cement mortar 1 6, to brick masonry including rounding off corners wherever reuired smooth rendering, Providing and removing scaffolding, including cost of materials, labour Curing complete as per specifications Page No 122/ Item No 15 11/	sqm
16	VENTILATORS Hinges 5" heavyduty	Each
17	bottom lock nail	Each
18	MS Clamps	Each
19	Brass screws 25mm	Each

Previous Measurment		Present Measurement			Total up-to date		Remarks
	cost	Qty	Rate	Cost	Qty	cost	
–	–	19.06	220.0	4193.20	19.06	4193.20	
–	–	32.028	260.0	8327.28	32.03	8327.28	
–	–	51.09	80.0	4087.20	51.09	4087.20	
–	–	8.54	5200.0	44408.00	8.54	44408.00	
–	–	27.64	300.0	8292.00	27.64	8292.00	
–	–	10.494	6500.0	68211.00	10.49	68211.00	
–	–	22.57	4200.0	94794.00	22.57	94794.00	
–	–	5.35	4900.0	26215.00	5.35	26215.00	
–	–	29.68	100.0	2968.00	29.68	2968.00	
–	–	0	0	0.00	0.00	0.00	
–	–	28.12	210.0	5905.20	28.12	5905.20	
Not executed		0	0	0.00	0.00	0.00	
–	–	36.95	900.0	33255.00	36.95	33255.00	
–	–	7.184	7000.0	50288.00	7.18	50288.00	
–	–	62.56	150.0	9384.00	62.56	9384.00	
–	–	4	30.0	120.00	4.00	120.00	
–	–	10	40.0	400.00	10.00	400.00	
–	–	8	35.0	280.00	8.00	280.00	
–	–	50	2.0	100.00	50.00	100.00	

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

sl no	Description of work	
20	Providing and fixing single shutter glass door of 12mm thick plain Toughened glass (Saint Gobain,Modi float).The door is fixed by using any approved make hardware fitting like patch fitting, pivot,Floor machine, locking arrangements and suitable SS door rails withFloral glass etching for 1/3 portion of door area etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, and as per specification. Page No.308/ Item No. 39.5 / PWD SR 2015-16	sqm
21	KSRB 14.13.1. Providing precast chequered mosaic tiles dark shade using ordinary grey cement for steps and flooring, with precast 20mm thick, using marble chips of approved colour 7 to 10 nominal size laid in floors, steps and landings on a bed of 12mm thick cement mortar 1:6, mix, jointed with neat cement slurry mix with pigment to match the shade of tiles curing, rubbing, polishing , oxalic acid wash, wax polish, including cost of materials, labour, HOM machinery complete as per specifications. Page No.102/ Item No. 14.28. PWD SR 2015-16	sqm
22	Providing and laying flooring using pre polishing water cut/gang saw 19 mm thick Granite slab over existing cement concrete bed in CM 1:4 at 20mm thick (average) pointed with white cement/ colour pigment etc., complete. Page No. 104/ Item No. 14.47.2 / black granite. PWD SR 2015-16	sqm
23	Providing and fixing Special make glazed Vitrified tiles (Granomite finis) of approved make, quality and colour of sized 6000x600x10mm thick fixed on existing flooring wit ha special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete. Page No. 104/ Item No. 14.44 / PWD SR 2015-16	sqm
24	KSRB 15-17.2. Applying priming coat over new wood surface and / or wood based surface after brushing with wood primer pink paint including preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 114/ Item No. 15.56 / PWD SR 2015-16	sqm
25	KSRB 15-17.6. Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Page No.115 / Item No. 15.60.1 / PWD SR 2015-16	sqm
26	KSRB 15.15.1. Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications with primer. Page No.113/ Item No. 15.51.2 / PWD SR 2015-16	sqm
27	KSRB 15-16. Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. with primer,page No.114 item No.15.53.2/PWD SR 2015-16	sqm
28	Supplying and fixing M.S. rectangular poles made out of 2 equal angles of 65x656 mm welded together and fixed in CC (1:2:4) with 2 NOS 16 mm dia, M.S. hold fast rods each of length 25 cms, including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete), No. 232/ Item No. 37.2 PWD SR 2015-16	Rmt
29	Providing and fixing M.S. Block pipe of 38 mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two vertical poles (M.S rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the engineer in charge of work etc, complete including two coats of approved quality paint over one coat of shop paint, No. 265 Item No. 37.4 PWD SR 2015-16	Rmt
30	Providing chain link fencing 50 mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall bed welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the engineer – in charge of work including two coats of approved quality paint over one coat of shop paint, No. 265/ Item No. 37.3 PWD SR 2015-16	Sqm
31	POP Sheets corogated roof Sheets nut bolts including labour charges etc complete	Sqm
32	G.I. Roof sheets fixing and complete including labour charges	Sqm
33	Steel Pre fabricates structure with a 14 Guage (3)" each 60 kg including cutting and transportation complete	kgs
34	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A 2.3.1) Short point upto 3Mtr from tapping point to out let via switch box	Point
35	2.3.2) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point
36	2.3.3) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point
37	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 1.1.1) 19/20mm dia 2mm thick	mtr

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	14	11500.0	161000.00	14.00	161000.00	
–	–	10	950.0	9500.00	10.00	9500.00	
–	–	3.73	2350.0	8765.50	3.73	8765.50	
–	–	14.8	980.0	14504.00	14.80	14504.00	
Not executed		0	0	0.00	0.00	0.00	
Not executed		0	0	0.00	0.00	0.00	
–	–	33.44	75.0	2508.00	33.44	2508.00	
–	–	14	80.0	1120.00	14.00	1120.00	
Not executed		0	0	0.00	0.00	0.00	
Not executed		0	0	0.00	0.00	0.00	
Not executed		0	0	0.00	0.00	0.00	
–	–	16.8	4300.0	72240.00	16.80	72240.00	
–	–	13.5	850.0	11475.00	13.50	11475.00	
–	–	400	120.0	48000.00	400.00	48000.00	
–	–	2	160.0	320.00	2.00	320.00	
–	–	2	200.0	400.00	2.00	400.00	
–	–	2	300.0	600.00	2.00	600.00	
–	–	20	45.0	900.00	20.00	900.00	

Asst. Executive Engineer

	Description of work	Unit
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 2.5.2) 1.5 sqmm	Mtr
	2.5.1) 1 sqmm	Mtr
	2.5.3) 2.5 sqmm	Mtr
	2.5.4) 4 sqmm	Mtr
	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete 1.6.3) 10"x7"x3" (254x178x76mm)	Each
	1.6.4) 8"x6"x3" (203x152x76mm)	Each
	1.6.1) 12"x12"x3" (300x300x76mm)	Each
	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws	Sqcm
	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A 3.15.1) 6Amps SP Switch	no
	3.15.3) 6Amps 3 way 5 pin Socket	no
	3.15.6) 6 Amps lamp holder	no
	3.15.13) 16/6 Amps combined plug and socket with control switch	no
	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 3.7.18) 1000-1200Watts Dimmer	Each
	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6.16.1) 5-32Amps SP	Each
2	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No
	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers 6.7.1) 16Amps	Each
	Supply patty type fluorescent tube light fitting of 4'-36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on230 Volts A C Supply including 1No 4'-36/40 Watts fluorescent tube c) Group 'C' KPWD SR (Ele) 2010-11	Each
5	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps 17.7.1) On wall / ceiling / Rafter / Girders	Each
56	SHORT POLES (whereas clearance between Messenger wire and ground is inadequate) a) Supplying and fixing 40mm diat 2.90 thick GI pipe 1.8m long complete with atleast 2 GI pipe 1.8m, long complete with atleast 2 Nos of through bolts 12 mm dia with MS back plate 100x100x6mm dia with eye bolt fixed at top deadeninding messenger wire with masonary patch work etc., complete as per approved drawing (for single phase installations) PWD SR 2007-08	Each
57	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phase and 4 single core wires for 3 phase Supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two break insulators one at each end of the span with suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes(single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No.14SWG) GI wire suitably bent and twisted. Separate reely insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole wide item No.4 above (Page No.56 item No.5 a)Single Phase using 2 Wire e) 16 Sqmm	mtr
58	BBMP Approved Rate	mtr
59	BBMP Approved Rate	mtr

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	50	15.0	750.00	50.00	750.00	
–	–	50	10.0	500.00	50.00	500.00	
–	–	50	30.0	1500.00	50.00	1500.00	
–	–	100	62.0	6200.00	100.00	6200.00	
–	–	2	80.0	160.00	2.00	160.00	
–	–	1	65.0	65.00	1.00	65.00	
–	–	1	150.0	150.00	1.00	150.00	
–	–	1225	0.25	306.25	1225.00	306.25	
–	–	1	30.0	30.00	1.00	30.00	
–	–	1	45.0	45.00	1.00	45.00	
–	–	3	45.0	135.00	3.00	135.00	
–	–	4	260.0	1040.00	4.00	1040.00	
–	–	1	400.0	400.00	1.00	400.00	
–	–	1	400.0	400.00	1.00	400.00	
–	–	1	2700.0	2700.00	1.00	2700.00	
–	–	1	100.0	100.00	1.00	100.00	
–	–	5	300.0	1500.00	5.00	1500.00	
–	–	5	90.0	450.00	5.00	450.00	
–	–	1	500.0	500.00	1.00	500.00	
–	–	55	80.0	4400.00	55.00	4400.00	
–	–	1	946000.0	946000.00	1.00	946000.00	
–	–	1	123000.0	123000.00	1.00	123000.00	

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)

Sl no	Description of work	Unit
60	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P W S S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1 0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site , engaging techinical personal and labour required etc., as per Specification and direction .	Each
61	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) 0 to 50 m	Rmtr
62	50 to 100 m	Rmtr
63	100 to 150 m	Rmtr
64	150 to 200 m	Rmtr
65	200 to 250 m	Rmtr
66	250 to 300m	Rmtr
67	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes)	Rmtr
68	Providing and fixing 250mm dia PVC 6 kg/sqcm pressure pipe including jointing and labur charges for laying pipes and as per specification and directions (BWSSB SR 13-14, P No 45 I no 1 of sl no 11)	Each
69	175 mm dia M S Casing cap (P NO-III, I NO-85, PRED 12-13 SR)	Each
70	M S Casing pipe collars 'C' Class (P NO-III, I NO-86, PRED 12-13 SR)	Each
71	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH , 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc complete . The pump and motor shall form an integral unit with all the required fittings	No
72	Providing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc, complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 13-14 PWD Page No XVII code No 509, 0154)	Rmtr
73	Providing & fixing socket GI (heavy duty collar) (Pwd SR pg xxxviii)	Rmtr
74	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts P No 46/ I No 30-B 4 0 Sqm mm of 36 strands 0 3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19 01 2009 (1x3x4 00 Sqmm PVC cable	Mtr
75	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc, completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6 50 HP to 15 00 HP with star delta starter (MR)	No
76	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc, complete box of 21600 sq cm (P NO-530, I NO-39 b, BWSSB SR 13-14)	Sqm
77	Providing & Fixing of clamps set and borewell cap to the pump .	No
78	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve) (PWD SR 13-14, P NO XXIV, Sl no, 673)	No
79	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark 50mm Gate Valve for distributer pipeline 50mm dia (PWD SR 13-14, P NO XXIV, Sl no, 659)	No
80	Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P NO XXXVIII GI FITTINGS TABLE)	No
81	Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P NO XXXVIII GI FITTINGS TABLE)	No
82	Providing and fixing of 50mm GI union to the motor ((PWD SR 13-14, P NO XXXVIII GI FITTINGS TABLE)	No

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	1	1800.0	1800.00	1.00	1800.00	
–	–	50	300.0	15000.00	50.00	15000.00	
–	–	50	420.0	21000.00	50.00	21000.00	
–	–	50	450.0	22500.00	50.00	22500.00	
–	–	50	480.0	24000.00	50.00	24000.00	
–	–	50	550.0	27500.00	50.00	27500.00	
–	–	25	600.0	15000.00	25.00	15000.00	
–	–	60	1320.0	79200.00	60.00	79200.00	
–	–	18	1130.0	20340.00	18.00	20340.00	
–	–	1	90.0	90.00	1.00	90.00	
–	–	15	120.0	1800.00	15.00	1800.00	
–	–	1	70000.0	70000.00	1.00	70000.00	
–	–	240	300.0	72000.00	240.00	72000.00	
–	–	55	80.0	4400.00	55.00	4400.00	
–	–	485	160.0	77600.00	485.00	77600.00	
–	–	1	9000.0	9000.00	1.00	9000.00	
–	–	21600 ~~22000~~	0.3	6480 ~~6600.00~~	21600 ~~22000.00~~	6480 ~~6600.00~~	
–	–	1	450.0	450.00	1.00	450.00	
–	–	3	1200.0	3600.00	3.00	3600.00	
–	–	3	1100.0	3300.00	3.00	3300.00	
–	–	3	200.0	600.00	3.00	600.00	
–	–	3	100.0	300.00	3.00	300.00	
–	–	3	200.0	600.00	3.00	600.00	

Asst. Executive Engineer

sl no	Description of work	Unit
83	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	L
84	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc, Complete for basement out door type. (MR)	No
85	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No
86	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	Mtr
87	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc, Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14) in hard soil	Mtr
88	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	Mtr
89	Supplying and fixing wiring earth electrode for grounding cónduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc, is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc, the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 . BWSSB SR 13-14)	No
90	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)	No
91	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	No
92	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc, Complete 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 13-14)	No
93	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc , Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)	No
94	KSRB 2-1.1 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.1, PWD SR 13-14) for PVC pipe	Cum
95	Providing and instalation at site of works P.V.C Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.12 item No.3.4.2.b PRED SR 2010-11. 75 mm dia 6 KSC PVC pipe	Rmtr
96	63mm dia 6KSC	Rmtr
97	Providing and installation at site of work 20mm GI pipes including cost of pipes and specials and labur incluidng lowering into trenches, laying ture to line, complete as per direction of Engineer in charge for public taps for motors/pipeline (P.No.95, I.No.13.11 PWD SR 13-14)	Mtr
98	laying and jointing GI pipes without earthwork including aligning to line and slope fixing collers elbows tees bends gland cocks and other fittings with cuts and threads whereevere necessary 20mm PRDED SR 2012-13 Item No 3.1.2	Mtr
99	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 15-16	cum
		TOTAL

Certificates:

1 The above work is done satisfactorily
2 There is no department Material issue for the above work
3 This works comes under BBMP Limit.

Previous Measurment		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	52	85.0	4420.00	52.00	4420.00	
–	–	1	450.0	450.00	1.00	450.00	
–	–	1	850.0	850.00	1.00	850.00	
–	–	35	150.0	5250.00	35.00	5250.00	
–	–	35	50.0	1750.00	35.00	1750.00	
–	–	3	275.0	825.00	3.00	825.00	
–	–	1	1500.0	1500.00	1.00	1500.00	
–	–	1	270.0	270.00	1.00	270.00	
–	–	1	1350.0	1350.00	1.00	1350.00	
–	–	4	1450.0	5800.00	4.00	5800.00	
–	–	1	300.0	300.00	1.00	300.00	
–	–	35.1	270.0	9477.00	35.10	9477.00	
–	–	25	150.0	3750.00	25.00	3750.00	
–	–	40	100.0	4000.00	40.00	4000.00	
–	–	30	120.0	3600.00	30.00	3600.00	
–	–	14	14.0	196.00	14.00	196.00	
–	–	35.1	70.0	2457.00	35.10	2457.00	
				2390450		2390450	

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Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore